

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1. (Currently Amended) A process for the preparation of a supported zeolite membrane comprising a zeolite/substrate composite layer, whose zeolite phase exhibits a crystallinity of at least 85%, whereby said process comprises:

- a) ~~the formation~~forming of a gel or a solution that comprises at least one source of silica and water, supplemented with at least one polar organic compound;
- b) bringing into contact said gel or said solution with a porous substrate;
- c) ~~the crystallization of the~~crystallizing zeolite starting from said gel or said solution; and
- d) ~~the~~ elimination of residual agents,

characterized in that, in ~~stage~~-(a), the molar ratio of water to silica in said gel or said solution is 27:1 to 35:1 and wherein in ~~stage~~-(c), the crystallization is conducted in a single hydrothermal treatment for at least 25 hours at a temperature of 100-250°C.

Claim 2. (Currently Amended) A process according to claim 1, wherein in ~~stage~~-(a), the molar ratio of the water to the silica in said gel or said solution is between 27:1 and 32:1.

Claim 3. (Currently Amended) A process according to claim 1, wherein in ~~stage~~-(a), the molar ratio of the water to the silica in said gel or said solution is between 28:1 and 31:1.

Claim 4. (Currently Amended): A process according to claim 1, wherein in ~~stage~~-(c), the crystallization time is at least 65 hours.

Claim 5. (Previously Presented) A process according to claim 1, wherein the zeolite phase exhibits a crystallinity of at least 90%.

Claim 6. (Currently Amended) A process according to claim 1, wherein in ~~stage-(a)~~, the molar ratio of the polar organic compound to the silica is between 0.3:1 and 0.6:1.

Claim 7. (Previously Presented) A process according to claim 1, wherein the porous substrate comprises: ceramic based on alumina and/or zirconia and/or titanium oxide, carbon, silica, zeolites, clays, glass or metal.

Claim 8. (Currently Amended): A process according to claim 1, wherein the zeolite phase is a zeolite MFI-structure~~of the MFI-structural type~~.

Claim 9. (Canceled)

Claim 10. (Canceled)

Claim 11. (Canceled)

Claim 12. (Canceled)

Claim 13. (Canceled)

Claim 14. (Canceled)

Claim 15. (Previously Presented) A process according to claim 1, wherein said at least one polar organic compound is selected from the group consisting of organic hydroxides, organic structuring agents containing ammonium or phosphonium ions and corresponding anions, amines, alcohols, crown ethers and cryands.

Claim 16. (Currently Amended) A process according to claim 1, wherein the water to the silica in said gel or said solution is between 28:1 and 31:1; ~~the crystallization time is~~ conducted for at least 65 hours; the zeolite phase exhibits a crystallinity of at least 90%; the

molar ratio of the polar organic compound to the silica is between 0.3:1 and 0.6:1; and the zeolite phase is a zeolite having MFI-structure~~of the MFI-structural type~~.

Claim 17. (Canceled)

Claim 18. (Currently Amended): A process according to claim 1, wherein ~~the crystallinity~~crystallization is conducted at a temperature of 150-210°C.

Claim 19. (Currently Amended): A process according to claim 4, wherein ~~the crystallinity~~crystallization is conducted at a temperature of 150-210°C.

Claim 20. (Canceled)

Claim 21. (New) A process according to claim 1, wherein the zeolite membrane is formed by localizing most of the zeolite in the pores of the substrate.

Claim 22. (New) A process according to claim 1, wherein the zeolite membrane is formed by all of the zeolite in the pores of the substrate.

Claim 23. (New) A process according to claim 1, wherein the zeolite membrane has a thickness of less than 0.5µm.